TITAN AUTOMATIC TOOL CO., INC.

Cable Address
"TITAN TOOL"
Iron Age Code on page 8

25 West Broadway, NEW YORK, N. Y., U.S.A.

Manufacturers of Gauges and Pneumatic Tools

ABSOLUTE ACCURACY
TRADE AA MARK
SEABOLDT CORP NEW YORK CITY

Products

- Portable Pneumatic Tools
- Machinists' Gauges—Plug, Snap or Thread
  - Also Measuring Blocks, Ring Gauges and Special Gauges.

Titan Universal Single Unit Pneumatic Tools

The Titan Universal Single Unit Pneumatic Tool is a self-contained, electrically driven, pneumatic hammer, new in principle, simple in construction, durable, portable and efficient in operation under severe and varied conditions.

It is made in five sizes, and when fitted with the various tool points and accessories illustrated on the next page, it is adapted to a wide variety of uses.

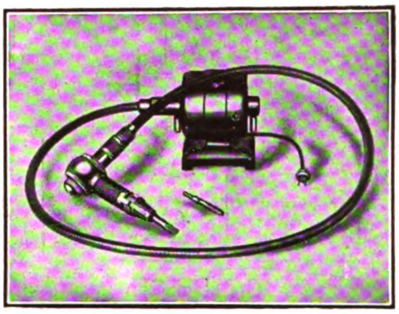

FIG. 1. SIZE NO. 3 TITAN UNIVERSAL SINGLE UNIT PNEUMATIC TOOL. FOR TOOL AND DIE MAKERS

Uses—This tool can be used economically for the following purposes:

Engraving, hammering and chasing by jewelers and metal craftsmen.

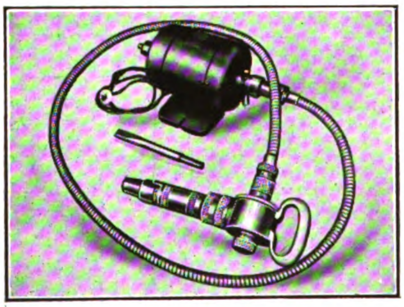

FIG. 2. SIZE NO. 9 TITAN UNIVERSAL SINGLE UNIT PNEUMATIC TOOL. FOR HEAVY CHIPPING AND RIVETING

Wood carving.

Die sinking and die making.

Facing, cutting and lettering stone.

Chipping, trimming and cutting all kinds of metal castings and pipe.

Chipping, trimming, cutting and beading boiler plates, fire boxes, flues, flue plates, steel car plates, automobile and truck bodies and frames, cabs, etc.

Calking boilers, caissons, tanks and pipe joints.

Removing scale from ships, boilers, painted surfaces and rusted surfaces.

Drilling and picking concrete, coal and asphalt.

Driving and clinching drift bolts and spikes.

Riveting structural shapes, plates and sheets.

Scraping and grooving bearings.

Advantages—The economy of the tool is emphasized by the advantages it possesses:

(1) The cost of maintenance is extremely low, as parts hardly ever require replacing and no auxiliary equipment is needed.

(2) The cost of operating the tool is low. The smaller units require only 1/30 h.p. and the larger ones 1/3 h.p.

(3) Simplicity is attained in its design and construction. There are only seven moving, working parts, and there are no complicated or easily broken parts.

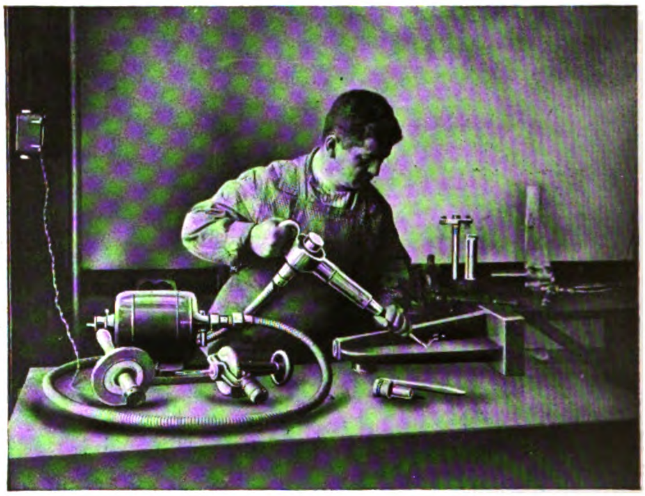

FIG. 2. SIZE NO. 9 TITAN UNIVERSAL SINGLE UNIT

(4) There is no air compressor, and no expensive installation or piping.

(5) There are no valves to clean or pack.

(6) The tool has no electric parts which might cause sparking, circuit breaking or burning out. A standard, well-built, efficient motor is used as an outside power plant. Overloading the tool will not affect the motor.

(7) The operator may regulate the force of the blow simply by varying the pressure which he exerts on the tool.

(8) It has a wide range of adaptability. It is made in five sizes—from a delicate engraver's tool to a heavy, rigid tool for iron and steel chipping, riveting and rock drilling. By means of attachments it can do drilling, grinding, polishing and scraping.

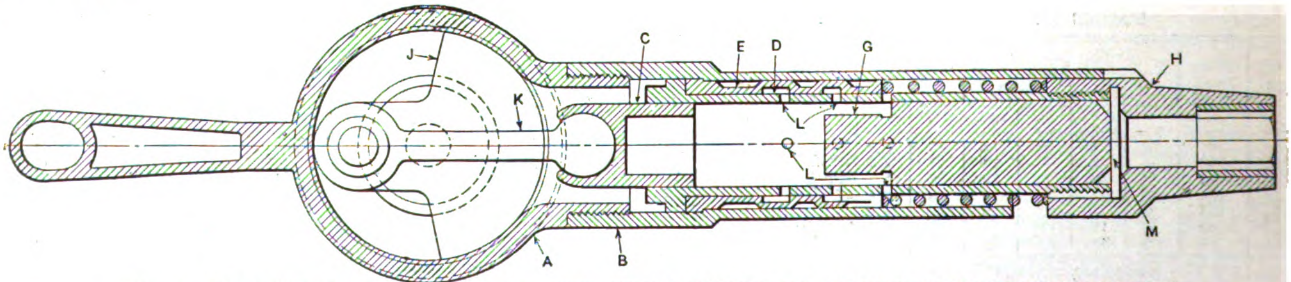

FIG. 4. LONGITUDINAL SECTION OF THE TITAN UNIVERSAL SINGLE UNIT PNEUMATIC TOOL

SIGUE EL TEXTO ESPAÑOL

SEGUE-SE O TEXTO PORTUGUEZ

LE TEXTE FRANÇAIS FAIT SUITE

РУССКІЙ ТЕКСТЪ СЛѢДУЕТЪ

DATA—STANDARD SIZES

Size No.	Principal Uses	Blows per Minute	Approximate Power of Blow		Size of Motor, h.p.	Tool Bushing			Total Weight		Code Word
			lb.	kg.		Shape	Size in.	Size mm.	lb.	kg.	
2	Engraving and metal chasing	4500	4	1,8	1/30	Round	3/32	2,4	5	2,3	GABLE
3	Die sinking, wood carving, bearing grooving and scraping	4000	6	2,7	1/20	Hexagon	1/4	6,4	10	4,5	GACOR
4½	Stone cutting, facing and lettering	3500	10	4,5	1/8	Octagon	3/8	9,5	20	9,1	GAILY
6	Medium calking, chipping, beading, scaling and riveting	2000	12	5,5	1/6	Octagon	1/2	12,7	40	1,8,1	GAMIN
9	Heavy chipping, drilling, picking and riveting	1800	15	6,7	1/3	Octagon	3/4	19,1	60	27,2	GAVEL

Standard equipments are for 110 volts D.C. or 110 volts A.C. 60 cycle single phase. Other voltages and types of current can be made to order. Complete catalogue will be sent upon application.

Accessories and Tool Points

The accessories and tool points illustrated below are used with the various sizes of Titan Universal Single Unit Pneumatic Tools as indicated.

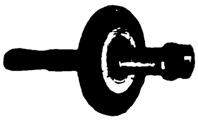

FIG. 5. GRINDING AND POLISHING ATTACHMENT

FIG. 6. RIVET SET

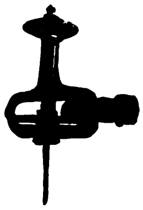

FIG. 7. DRILLING ATTACHMENT

ACCESSORIES FOR NOS. 6 AND 9 GRINDING AND DRILLING ATTACHMENTS ARE CONNECTED TO MOTOR WITH A FLEXIBLE BELT

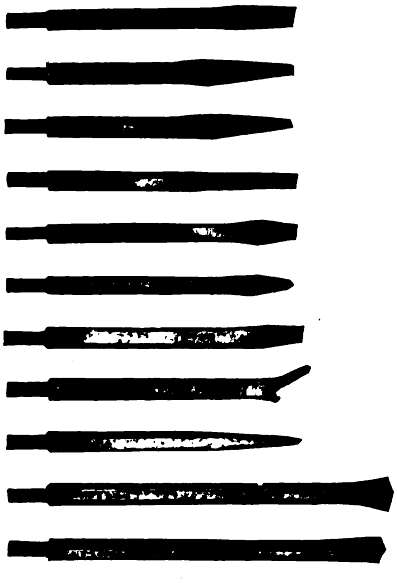

FIG. 8. TOOL POINTS FOR NOS. 2, 3, 4½, 6 AND 9

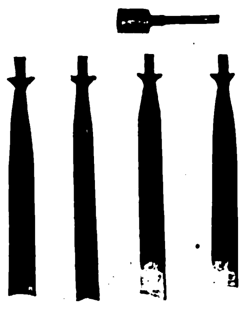

FIG. 9. WOOD CARVING TOOLS WITH ADAPTER FOR NO. 3

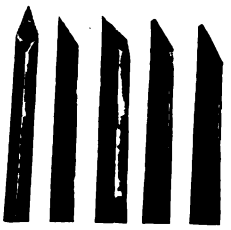

FIG. 10. GRAVER POINTS FOR NO. 2

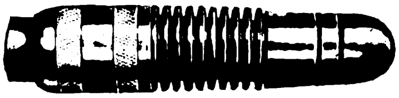

FIG. 11. HAND PIECE TO FIT NO. 3 MOTOR AND SHAFT. FOR DIE SINKING BURRS, BEARING SCRAPING BURRS, AND GRINDING, CUTTING AND POLISHING WHEELS

"Seaboldt" Gauges

"SEABOLDT" STANDARD MEASURING WIRES—Are guaranteed to be accurate to 0.00002 in. (0,0005 mm.). They are used in conjunction with a micrometer caliper and tables which we furnish with each set to determine the angle and pitch of U. S. Standard, Acme, or Whitworth threads.

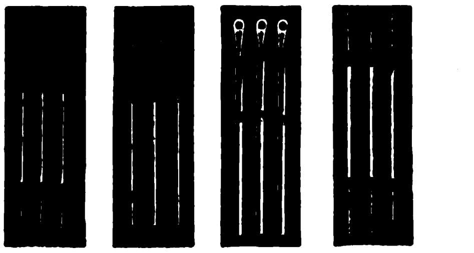

FIG. 12. "SEABOLDT" STANDARD MEASURING WIRES

"SEABOLDT" MACHINISTS' GAUGES—Are made accurately to any specifications in English or metric standards. In addition to the standard gauges shown on this page, we make Ring Gauges, Special Gauges and Measuring Blocks. Complete catalogue will be sent upon application.

FIG. 13. "SEABOLDT" STANDARD TOLERANCE PLUG GAUGE

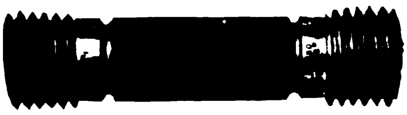

FIG. 14. "SEABOLDT" STANDARD TOLERANCE THREAD GAUGE

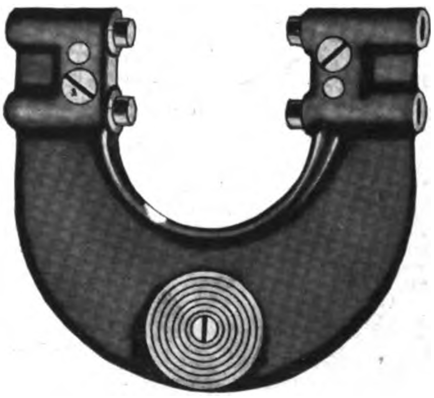

FIG. 15. "SEABOLDT" STANDARD ADJUSTABLE LIMIT SNAP GAUGE

SIGUE EL TEXTO ESPAÑOL

LE TEXTE FRANÇAIS FAIT SUITE

TITAN AUTOMATIC TOOL CO., INC.

25 West Broadway, NEW YORK, N. Y., E. U. A.
FABRICANTES DE CALIBRADORES Y HERRAMIENTAS NEUMATICAS
Dirección Cablegráfica: "TITAN TOOL", New York
Clave del Iron Age en la Página 10

PRODUCTOS:—Herramientas Neumáticas Portátiles. Calibres de Tapón para Mecánicos de Tope y para Roscas. También Bloques Calibradores de Tacto, Calibradores de Anillos y Calibradores Especiales. Herramienta "Titan" Universal Neumática Sencilla.

Fig. 1. Esta herramienta es un martillo neumático completo, accionado por electricidad de invención reciente, sencillo en construcción, durable y eficaz.

Construímos cinco tamaños y cuando se proveen de las herramientas y accesorios apropiados, estos martillos se adoptan para gran variedad de trabajos.

APLICACIONES.—Esta herramienta puede usarse económicamente en las operaciones de grabar, martillar y cincelar artículos de joyería. Tallado de madera, troqueles y matrices, labrado y corte de piedra, burilado, corte y recorte de fundiciones de metal y tubería, planchas para calderas, hogares, campanas de chimenea, planchas para campanas de chimenea, planchas para vagones y carrocería de automóviles y camiones, etc.

VENTAJAS.—Costo de conservación y funcionamiento mínimo. La construcción es muy sencilla. No se usa compresor de aire y por lo tanto no hay instalación costosa que atender. No hay válvulas que limpiar o que empaquetar. La herramienta no tiene partes eléctricas que produzcan chispas, o corto circuitos que se quemen. Si la herramienta es sobrecargada, no se afecta el motor.

Fig. 4. Sección Longitudinal de la Herramienta Titan. Los accesorios y herramientas que se muestran se usan como se indican.

Fig. 5. Dispositivo de Esmerilar y Pulir.
Fig. 6. Ajustador de Remaches.
Fig. 7. Dispositivo para Taladrar.
Fig. 8. Herramientas para las Titan Nos. 2, 3, 4½, 6 y 9.
Fig. 9. Herramientas con su Ajustador para Tallar Madera.
Fig. 10. Buriles para la Titan No. 2.
Fig. 11. Pieza de Mano de Ajustar el Motor No. 3 y Arbol para Esmerilar Troqueles Repujados y Cojinetes y para Ruedas de Esmerilar, Cortar y Pulir.
Fig. 12. Calibres "Seaboldt" para Calibrar Alambres. Estos se garantizan con una precisión de 0,0005 mm. (0,00002 pulg.).

ESCANTILLONES DE MECANICOS "SEABOLDT".—Estos se hacen de gran precisión y para especificaciones cualesquiera, en medidas inglesas o métricas.

Fig. 13. Escantillón de Tapon "Seaboldt".
Fig. 14. Escantillón de Rosca "Seaboldt".
Fig. 15. Escantillón de Tope Ajustable.

TITAN AUTOMATIC TOOL CO., INC.

25 West Broadway, NOVA YORK, E. U. A.
FABRICANTES DE CALIBRES E FERRAMENTAS PNEUMATICAS
Endereço Telegraphico "TITAN TOOL", New York
Codigo da Iron Age, Vide Pagina 12.

PRODUCTOS. Ferramentas Pneumaticas Portateis, Calibres para Mechanicos, Calibres de Roscas e Calibres Especiaes.

FERRAMENTAS PNEUMATICAS "UNIVERSAL TITAN." A ferramenta pneumatica "Universal Titan", consiste em um martello pneumatico funccionando por meio de electricidade, de uma construcção simples, duravel e compacta e de funccionamento efficaz. Fabrica-se em cinco tamanhos, podendo-se adoptar a uma grande variedade de trabalhos.

Fig. 1. Ferramenta pneumatica "Universal Titan" No. 3. Pode-se usar para embutidos, gravura em metal, cortar e lavrar pedra, desbastar e cortar toda classe de peças fundidas, recortar chapas de caldeiras, canos, chapas para carros, carrosseries de automoveis e caixas de caminhões, para calafetar caldeiras, depositos e juntas de canos, remover incrustaçoes de superficies pintadas ou oxydadas, brocar betão, furar chapas e folhas e raspar e ranhurar mancaes.

VANTAGENS. Esta ferramenta é pequena e de funccionamento muito simples. Possue apenas sete peças moveis, não tendo peças complicadas que necessitem reparos nem tão pouco valvulas para serem limpas. O operario pode regular a força de penetração, variando simplesmente a pressão que elle exerce na ferramenta.

Fig. 4. Secção Longitudinal da Ferramenta Pneumatica Universal. "Titan".

Os accessorios e pontas de ferramentas illustradas no texto inglez, são usadas com os varios tamanhos de ferramentas pneumaticas "Universal Titan".

Fig. 5. Accessorios de Esmerilhar e polir.
Fig. 8. Ferramentas para os Nos. 2, 3, 4½, 6 e 9.
Fig. 11. Peça para se ajustar ao motor e eixo No. 3. Para buris de raspar mancaes e para trabalhos de gravura, assim como para rebolos de cortar, brunir e polir.

CALIBRES "SEABOLDT." Estes calibres medem com a maior exactidão até (0.00002 poll.) 0.0005 mm. Usam-se conjuntamente com um compasso micrometrico e tabellas que se fornecem com cada jogo para determinar o angulo e passo das roscas do typo americano, Acme ou Whitworth.

Fig. 12. Calibres Correntes "Seaboldt." Calibres para mechanicos "Seaboldt". Frabrican-se esmeradamente segundo quesquer especifcações em medidas inglezas ou metricas. Fabricamos tambem calibres de annel, calibres especiaes e blocos de medição.

TITAN AUTOMATIC TOOL CO., INC.

25 West Broadway, NEW YORK, N. Y., ETATS-UNIS
FABRICANTS DE CALIBRES ET D'OUTILS PNEUMATIQUES
Adresse télégraphique: "TITAN TOOL", New York
Code de l'Iron Age à la page 14.

PRODUITS FABRIQUES:—Outils Pneumatiques Portatifs, Calibres de Précision, Calibres de Mécanicien, Mâle, Femelle et pour Pas de Vis, Calibres de Longueur, Bagues Calibrées, Calibres Spéciaux.

OUTILS PNEUMATIQUES UNIVERSELS COMPLETS "TITAN".—Cet outil pneumatique universel complet est un marteau pneumatique indépendant, mu par l'électricité, établi d'après un principe nouveau, de construction simple, résistant à l'usage, portatif et donnant d'excellents résultats dans les conditions les plus variées et les plus pénibles. Nous le construisons en cinq tailles.

Fig. 1. Outil Pneumatique Complet "Titan", Modèle No. 3. Pour fabricants de matrices et d'outils.
Fig. 2. Outil Pneumatique "Titan", Modèle No. 9. Pour gros burin et bouterolle.
Fig. 3. Outil Pneumatique "Titan", Fonctionnant.

AVANTAGES.—(1) Les frais d'entretien sont très faibles. (2) Les frais de fonctionnement sont minimes: 1/30 de H.P. pour les petits modèles, 1/3 de H.P. pour les grands. (3) L'outil est de conception et de construction simple, les pièces mobiles qui travaillent sont au nombre de sept seulement. (4) Le fonctionnement de l'appareil ne nécessite ni compresseur d'air, ni installation dispendieuse, ni tuyauterie. (5) Il n'y a aucune soupape à nettoyer ou à rendre étanche. (6) Il n'y a aucun organe électrique qui puisse causer des étincelles, des ruptures de courant ou des courts-circuits. (7) L'ouvrier peut régler la force de percussion en variant la pression qu'il exerce sur l'outil. (8) Ce marteau peut s'adapter à une variété infinie d'usages.

Fig. 4. Coupe Longitudinale de l'Outil Pneumatique Universel Complet "Titan".
Fig. 5. Accessoire Pour Meuler et Polir.
Fig. 6. Bouterolle.
Fig. 7. Accessoire Pour Perçage.

Les accessoires pour meuler et percer Nos. 6 et 9 sont reliés au moteur par une courroie souple.

Fig. 8. Bouts d'Outils Pour les Nos. 2, 3, 4½ et 9.
Fig. 9. Outils Pour le Travail du Bois avec Porte-Outil Pour Appareil No. 3.
Fig. 10. Pointes à Graver Pour le No. 2.
Fig. 11. Manette s'Adaptant au Moteur et à l'Arbre No. 3.

CALIBRES "SEABOLDT".—

Fig. 12. Fil Calibre "Seaboldt", Normal pour la Mesure des Vis de tous Pas. Précision Garantie au 5 10.000 de mm.
Fig. 13. Calibre de Tolérance "Seaboldt", Normal, Mâle.
Fig. 14. Calibre "Seaboldt", Normal, pour Pas de Vis.
Fig. 15. Calibre à Limite Réglable "Seaboldt". Femelle.

TITAN AUTOMATIC TOOL CO., INC.

25 West Broadway, NEW YORK, N. Y. С. А. С. Ш.
ЗАВОДЪ ЭЛЕКТРО-ПНЕВМАТИЧЕСКИХЪ ИНСТРУМЕНТОВЪ И КАЛИБРОВЪ.
Адресъ для каблеграммъ: „Titantool", New York.
Кодъ каталога Iron Age на 16-й стр.
Фабричная марка: „AA" (см. англ. текстъ).

ИЗДѢЛIЯ.—Портативные электро-пневматическiе инструменты.—Калибры для механиковъ: для внѣшняго дiаметра, цилиндрическихъ отверстiй, нарѣзки и другiе.

УНИВЕРСАЛЬНЫЙ ЭЛЕКТРО-ПНЕВМАТИЧЕСКIЙ ИНСТРУМЕНТЪ „ТИТАНЪ". — Его дѣйствiе основано на совершенно новомъ принципѣ (см. фиг. 4). Совмѣщаетъ всѣ выгоды электрическихъ и пневматическихъ инструментовъ.

Фиг. 1.—Размѣръ № 3. — Для изготовленiя инструментовъ и штампъ.
Фиг. 2.—Размѣръ № 9.—Для тяжелыхъ стружекъ и клепки.
Фиг. 3.—Инструментъ „Титанъ" въ работѣ.
Фиг. 4.—Продольный разрѣзъ.

УПОТРЕБЛЕНIЕ: — Гравировка — для ювелировъ и ремесленниковъ по металлу; для вырѣзки по дереву; для изготовленiя штампъ; для облицовки и обработки камня; долбленiя, отдѣлки, обрѣзки и забортовки котельныхъ листовъ, огневыхъ коробокъ, дымогарныхъ трубъ, листовъ для стальныхъ вагоновъ, автомобильныхъ и грузовыхъ корпусовъ, рамъ и т. д.; для чеканки котловъ, кессоновъ, резервуаровъ и трубныхъ соединенiй; для удаленiя накипи, ржавчины или окраски съ металлическихъ поверхностей и тому подобныхъ работъ.

ПРИСПОСОБЛЕНIЯ И НАКОНЕЧНИКИ.

Фиг. 5.—Шлифовальное и полировальное приспособленiе.
Фиг. 6.—Зенковки.
Фиг. 7.—Приспособленiе для сверловки.
Фиг. 8, 9, 10.—Различные наконечники.
Фиг. 11.—Оправка для шлифовальныхъ кружковъ.

КАЛИБРЫ „СИБОЛДЪ"

Фиг. 12.—Нормальные проволочные калибры.
Фиг. 13.—Калибры съ допусками для нарѣзки.
Фиг. 14.—Калибръ съ нормальными допусками для цилиндрическихъ отверстiй.
Фиг. 15.—Калибръ для внѣшняго дiаметра съ устанавливаемыми допусками.